Title (en)

A HIGH SURFACE AREA SILICON DERIVATIVE FREE MAGNESIUM- TITANIUM CATALYST SYSTEM FOR ETHYLENE POLYMERIZATION AND PROCESS OF PREPARATION THEREOF

Title (de)

SILICIUMDERIVATFREIES MAGNESIUM-TITANKATALYSATORSYSTEM MIT GROSSEM OBERFLÄCHENBEREICH ZUR ETHYLENPOLYMERISATION UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)

SYSTÈME DE CATALYSEUR AU TITANE-MAGNÉSIUM DE GRANDE SURFACE EXEMPT DE DÉRIVÉ DE SILICIUM POUR LA POLYMÉRISATION DE L'ÉTHYLÈNE, ET SON PROCÉDÉ DE PRÉPARATION

Publication

EP 2794683 A1 20141029 (EN)

Application

EP 12815841 A 20120726

Priority

- IN 3585MU2011 A 20111221
- IN 2012000519 W 20120726

Abstract (en)

[origin: WO2013093930A1] The present invention relates to a high surface area silicon derivative free magnesium- titanium catalyst system for ethylene polymerization comprising: magnesium mixed alkoxide and titanium chloride. The present invention also provides a simple process for the preparation of high surface area silicon derivative free magnesium-titanium catalyst system for ethylene polymerization by reacting magnesium alkoxide precursor with titanium compound using dialkyl dialkoxy silane as external donor. The invention further relates to the process for ethylene polymerization using the silicon derivative free magnesium-titanium catalyst system and polyethylene produced" by the catalyst system having narrow molecular weight distribution and higher bulk density.

IPC 8 full level

C08F 10/00 (2006.01)

CPC (source: EP US)

C08F 110/02 (2013.01 - EP US)

Citation (search report)

See references of WO 2013093930A1

Citation (examination)

- US 6124412 A 20000926 - BIN-TALEB ABDULMALIK [SA], et al
- EP 0076165 A1 19830406 - TOA NENRYO KOGYO KK [JP]

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

WO 2013093930 A1 20130627; EP 2794683 A1 20141029; KR 20140107548 A 20140904; US 2015073108 A1 20150312

DOCDB simple family (application)

IN 2012000519 W 20120726; EP 12815841 A 20120726; KR 20147020368 A 20120726; US 201214367102 A 20120726